#10

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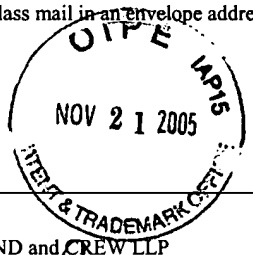
P.O. Box 1450
Alexandria, VA 22313-1450



On November 18, 2005

TOWNSEND and TOWNSEND and CREW LLP

By: Sharyl Brown
Sharyl Brown

PATENT
Docket No.: 16869P-023000US
Client Ref. No.: 21000119US1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

HISAE SHIBUYA et al.

Application No.: 09/824,991

Filed: April 2, 2001

For: METHOD FOR EVALUATING COLOR PICTURE TUBES AND DEVICE FOR THE SAME AND METHOD FOR MAKING COLOR PICTURE TUBES

Examiner: Trang U. Tran

Art Unit: 2614

RENEWED PETITION UNDER 37 CFR § 1.137(b)

Mail Stop Petitions
Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

November 18, 2005

Sir:

This is Renewed Petition is being filed in response to the Decision on Petition, dated September 19, 2005, which dismissed the Petition filed on June 9, 2005. The Petition of June 9, 2005, was dismissed for failure to submit the Required Reply. The Required Reply, as noted in the Communication that was submitted with the Petition, was filed on January 2, 2004. The Required Reply, however, listed the wrong application number, i.e., Application Number 09/284,991, rather than 9/824,991. Enclosed herewith are the Petition, Communication, and other documents filed on June 9, 2005. Enclosed also are the Amendment and related documents filed on January 2, 2004, as well as a

New Amendment, which corresponds to the Amendment of January 2, 2004. Applicants respectfully request the Examiner to grant the Renewed Petition and allow the revival of this unintentionally abandoned application.

CONCLUSION

If the Petitions Attorney believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at (650) 326-2400.

Respectfully submitted,

Steve Y. Cho
Reg. No. 44,612

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, Eighth Floor
San Francisco, California 94111-3834
Tel: 650-326-2400
Fax: 650-326-2422
SYC:km

60639724 v1

TO THE U.S. PATENT AND TRADEMARK OFFICE:

Please stamp your date of receipt of the following documents and return this card to addressee:

Enclosed
1) SB/21 Transmittal Form (1 page)
2) SB/17 Fee Transmittal (in duplicate) (2 pages)
3) Communication (2 pages)
4) SB/64 Petition For Revival of An Application For Patent Abandoned Unintentionally Under 37 CFR 1.137(b) (2 pages)
5) Return Post Card

Application No.:	09/824,991
Atty Docket No.:	16869P-023000US
Date Due:	July 18, 2005
Date Mailed:	June 6, 2005
Atty/Secy:	SYC/km

60505059 v1

PTO/SB/21 (09-04)

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission	8

Application Number	09/824,991
Filing Date	April 2, 2001
First Named Inventor	Shibuya, Hisae
Art Unit	2614
Examiner Name	Trang U. Tran
Attorney Docket Number	16869P-023000US

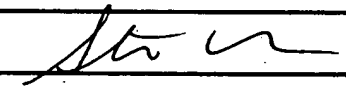
ENCLOSURES *(Check all that apply)*

- ☒ Fee Transmittal Form
  - ☐ Fee Attached
- ☐ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☐ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Reply to Missing Parts/ Incomplete Application
  - ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☒ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) _____
  - ☐ Landscape Table on CD
- ☐ After Allowance Communication to TC
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
- ☐ Proprietary Information
- ☐ Status Letter
- ☒ Other Enclosure(s) (please identify below):

Communication, Return Postcard

Remarks The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Townsend and Townsend and Crew LLP		
Signature			
Printed name	Steve Y. Cho		
Date	June 6, 2005	Reg. No.	44,612

CERTIFICATE OF TRANSMISSION/MAILING

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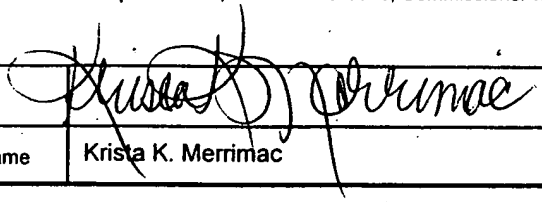
Signature			
Typed or printed name	Krista K. Merrimac	Date	June 6, 2005

Effective on 12/08/2004.
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL
For FY 2005

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT	($) 1,500.00

Complete If Known	
Application Number	09/824,991
Filing Date	April 2, 2001
First Named Inventor	Shibuya, Hisae
Examiner Name	Trang U. Tran
Art Unit	2614
Attorney Docket No.	16869P-023000US

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____

☒ Deposit Account Deposit Account Number: 20-1430 Deposit Account Name: Townsend and Townsend and Crew LLP

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☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

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FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES Fee ($)	FILING FEES Small Entity Fee ($)	SEARCH FEES Fee ($)	SEARCH FEES Small Entity Fee ($)	EXAMINATION FEES Fee ($)	EXAMINATION FEES Small Entity Fee ($)	Fees Paid ($)
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee ($)	Small Entity Fee ($)
Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent	50	25
Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent	200	100
Multiple dependent claims	360	180

Total Claims	-20 or HP =	Extra Claims	x Fee ($)	= Fee Paid ($)
_____		_____	_____	_____

HP = highest number of total claims paid for, if greater than 20

Indep. Claims	-3 or HP =	Extra Claims	x Fee ($)	= Fee Paid ($)
_____		_____	_____	_____

HP = highest number of independent claims paid for, if greater than 3

Multiple Dependent Claims: Fee ($) _____ Fee Paid ($) _____

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	- 100 =	Extra Sheets	/ 50 =	Number of each additional 50 or fraction thereof (round up to a whole number)	x Fee ($)	= Fee Paid ($)
_____		_____		_____	_____	_____

4. OTHER FEE(S)

	Fees Paid ($)
Non-English Specification, $130 fee (no small entity discount)	
Other: Petition Fee Under 37 CFR 1.17(m) for Petition For Revival of An Application For Patent Abandoned Unintentionally Under 37 CFR 1.137(b)	1,500.00

SUBMITTED BY

Signature		Registration No. (Attorney/Agent) 44,612	Telephone 650-326-2400
Name (Print/Type)	Steve Y. Cho		Date June 6, 2005

60505045 v1

PTO/SB/17 (12-04)

Effective on 12/08/2004.
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL
For FY 2005

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT	($) 1,500.00

Complete if Known	
Application Number	09/824,991
Filing Date	April 2, 2001
First Named Inventor	Shibuya, Hisae
Examiner Name	Trang U. Tran
Art Unit	2614
Attorney Docket No.	16869P-023000US

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____

☒ Deposit Account Deposit Account Number: 20-1430 Deposit Account Name: Townsend and Townsend and Crew LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, **except for the filing fee**

☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

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FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES Fee ($)	FILING FEES Small Entity Fee ($)	SEARCH FEES Fee ($)	SEARCH FEES Small Entity Fee ($)	EXAMINATION FEES Fee ($)	EXAMINATION FEES Small Entity Fee ($)	Fees Paid ($)
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Small Entity Fee ($)	Small Entity Fee ($)
Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent	50	25
Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent	200	100
Multiple dependent claims	360	180

Total Claims	Extra Claims	Fee ($)	Fee Paid ($)
_____	-20 or HP = _____	x _____	= _____

HP = highest number of total claims paid for, if greater than 20

Indep. Claims	Extra Claims	Fee ($)	Fee Paid ($)
_____	-3 or HP = _____	x _____	= _____

HP = highest number of independent claims paid for, if greater than 3

Multiple Dependent Claims Fee ($)	Multiple Dependent Claims Fee Paid ($)
_____	_____

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee ($)	Fee Paid ($)
_____ - 100 =	_____ / 50 =	_____ (round up to a whole number)	x _____	= _____

4. OTHER FEE(S)

	Fees Paid ($)
Non-English Specification, $130 fee (no small entity discount)	
Other: Petition Fee Under 37 CFR 1.17(m) for Petition For Revival of An Application For Patent Abandoned Unintentionally Under 37 CFR 1.137(b)	1,500.00

SUBMITTED BY

Signature		Registration No. (Attorney/Agent) 44,612	Telephone 650-326-2400
Name (Print/Type)	Steve Y. Cho		Date June 6, 2005

60505045 v1

PTO/SB/64 (09-04)

PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137(b)	Docket Number (Optional) 16869P-023000US

First named inventor: Hisae Shibuya

Application No.: 09/824,991 Art Unit: 2614

Filed: April 2, 2001 Examiner: Trang U. Tran

Title: METHOD FOR EVALUATING COLOR PICTURE TUBES AND DEVICE FOR THE SAME AND METHOD FOR MAKING COLOR PICTURE TUBES

Attention: Office of Petitions
Mail Stop Petition
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
FAX: (703) 872-9306

NOTE: If information or assistance is needed in completing this form, please contact Petitions Information at (703) 305-9282.

The above-identified application became abandoned for failure to file a timely and proper reply to a notice or action by the United States Patent and Trademark Office. The date of abandonment is the day after the expiration date of the period set for reply in the office notice or action plus any extensions of time actually obtained.

APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION

NOTE: A grantable petition requires the following items:
(1) Petition fee;
(2) Reply and/or issue fee;
(3) Terminal disclaimer with disclaimer fee — required for all utility and plant applications filed before June 8, 1995; and for all design applications; and
(4) Statement that the entire delay was unintentional.

1. Petition fee

☐ Small entity — fee $ _____ (37 CFR 1.17(m)). Applicant claims small entity status. See 37 CFR 1.27.

☒ Other than small entity — fee $ 1,500.00 (37 CFR 1.17(m))

2. Reply and/or fee

A. The reply and/or fee to the above-noted Office action in the form of a Communication (identify type of reply):

☐ has been filed previously on _____.
☒ is enclosed herewith.

B. The issue fee and publication fee (if applicable) of $ _____.

☐ has been paid previously on _____.
☐ is enclosed herewith.

3. Terminal disclaimer with disclaimer fee

☒ Since this utility/plant application was filed on or after June 8, 1995, no terminal disclaimer is required.

☐ A terminal disclaimer (and disclaimer fee (37 CFR 1.20(d)) of $_____ for a small entity or $_____ for other than a small entity) disclaiming the required period of time is enclosed herewith (see PTO/SB/63).

4. STATEMENT: The entire delay in filing the required reply from the due date for the required reply until the filing of a grantable petition under 37 CFR 1.137(b) was unintentional. [NOTE: The United States Patent and Trademark Office may require additional information if there is a question as to whether either the abandonment or the delay in filing a petition under 37 CFR 1.137(b) was unintentional (MPEP 711.03(c), subsections (III)(C) and (D))].

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Signature	June 6, 2005 Date
Steve Y. Cho Typed or printed name	44,612 Registration Number, if applicable
379 Lytton Avenue, Palo Alto, CA 94301 Address	(650) 326-2400 Telephone Number
Address	

Enclosures:
- ☒ Fee Payment
- ☒ Reply
- ☐ Terminal Disclaimer Form
- ☐ Additional sheets containing statements establishing unavoidable delay
- ☒ Other: Return Post Card

CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR 1.8(a)]

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☐ Transmitted by facsimile on the date shown below to the United States Patent and Trademark Office at (703) 872-9306.

June 6, 2005
Date

Signature

Krista K. Merrimac
Typed or printed name of person signing certificate

60505019 v1

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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

On June 6, 2005

TOWNSEND and TOWNSEND and CREW LLP

By: [signature]

NOV 2 1 2005

PATENT
Docket No.: 16869P-023000US
Client Ref. No.: 21000119US1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: HISAE SHIBUYA et al.	Examiner: Trang U. Tran
Application No.: 09/824,991	Art Unit: 2614
Filed: April 2, 2001	COMMUNICATION
For: METHOD FOR EVALUATING COLOR PICTURE TUBES AND DEVICE FOR THE SAME AND METHOD FOR MAKING COLOR PICTURE TUBES	

RECEIVED
NOV 2 5 2005
OFFICE OF PETITIONS

Mail Stop: Petitions
Office of Petitions
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

June 6, 2005

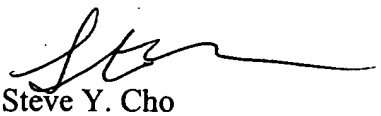
Sir:

We received a Notice of Abandonment dated May 18, 2005 for the above-referenced patent application. As indicated, the Notice of Abandonment was received for Applicant's failure to timely file a proper reply to the Office letter mail on 02 October 2003. An Amendment was filed on January 2, 2004 in response to the October 2, 2003 Office Action. We note, however, that the Application Serial No. was listed incorrectly as 09/284,991 on the Amendment as filed. Therefore, Applicant's respectfully request revival of this unintentionally abandoned application.

CONCLUSION

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at (650) 326-2400.

Respectfully submitted,



Steve Y. Cho
Reg. No. 44,612

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, Eighth Floor
San Francisco, California 94111-3834
Tel: 650-326-2400
Fax: 650-326-2422
SYC:km

60504765 v1

DAC

PTO/SB/21 (09-04)

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission	

Application Number	09/824,991
Filing Date	April 2, 2001
First Named Inventor	Shibuya, Hisae
Art Unit	2614
Examiner Name	Trang U. Tran
Attorney Docket Number	16869P-023000US

ENCLOSURES *(Check all that apply)*

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☒ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☐ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Reply to Missing Parts/ Incomplete Application
  - ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) _____
  - ☐ Landscape Table on CD
- ☐ After Allowance Communication to TC
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- ☐ Proprietary Information
- ☐ Status Letter
- ☒ Other Enclosure(s) (please identify below):
  - Renewed Petition
  - Copy of previously filed Amendment and accompanying documents
  - Copy of previously filed Petition For Revival and accompanying documents
  - Return Postcard

Remarks The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Townsend and Townsend and Crew LLP		
Signature	Steve Y. Cho		
Printed name	Steve Y. Cho		
Date	November 18, 2005	Reg. No.	44,612

CERTIFICATE OF TRANSMISSION/MAILING

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Signature	Sharyl Brown		
Typed or printed name	Sharyl Brown	Date	November 18, 2005

TO THE U.S. PATENT AND TRADEMARK OFFICE:
Please stamp your date of receipt of the following documents and return this card to addressee:

Attny. Docket No.:	16869P-023000US
Application No.:	09/284,991
Titled:	Method for Evaluating Color Picture Tubes and Device for the Same and Method for Making Color Picture Tubes
Inventor(s):	Hisae Shibuya, et al.
Date Mailed:	January 2, 2004
Atty/Secy:	SYC:asb

Enclosed
1) Transmittal
2) Amendment
3) Return Postcard

60110564 v1

PTO/SB/21 (08-03)

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	09/284,991
Filing Date	April 2, 2001
First Named Inventor	Shibuya, Hisae
Art Unit	2614
Examiner Name	Trang U. Tran
Total Number of Pages in This Submission	
Attorney Docket Number	16869P-023000US

ENCLOSURES ***(Check all that apply)***

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☒ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☐ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Response to Missing Parts/ Incomplete Application
  - ☐ Response to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s)
- ☐ After Allowance Communication to Group
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to Group **(Appeal Notice, Brief, Reply Brief)**
- ☐ Proprietary Information
- ☐ Status Letter
- ☒ Other Enclosure(s) *(please identify below)*:

  Return Postcard

Remarks	The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual	Townsend and Townsend and Crew LLP Steve Y. Cho Reg. No. 44,612
Signature	
Date	1/2/04

CERTIFICATE OF TRANSMISSION/MAILING

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Typed or printed name	Andrea S. Beck		
Signature		Date	1/2/04

60110558 v1

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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

On January 2, 2004

TOWNSEND and TOWNSEND and CREW LLP

By: _____

PATENT
Attorney Docket No.: 16869P-023000US
Client Ref. No.: 21000119US1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Hisae Shibuya

Application No.: 09/284,991

Filed: April 2, 2001

For: METHOD FOR EVALUATING COLOR PICTURE TUBES AND DEVICE FOR THE SAME AND METHOD FOR MAKING COLOR PICTURE TUBES

Customer No.: 20350

Confirmation No.: 1340

Examiner: Trang U. Tran

Technology Center/Art Unit: 2614

AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In response to the Office Action mailed October 2, 2003, please enter the following amendments and remarks:

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 12 of this paper.

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Original) A method for evaluating a color picture tube comprising:

displaying on a display surface of a color picture tube a measurement pattern including a plurality of first patterns arranged at different positions relative to fluophor dots of said color picture tube and a plurality of second patterns near said first patterns and sufficiently large relative to said fluophor dots;

obtaining a first image using an imaging element to image said displayed measurement pattern;

obtaining a second image using said imaging element to image while controlling light intake to allow brightness components of no more than about 1% of maximum luminance from said first image to be separated from noise and imaged;

creating a third image by combining said first image and said second image while adjusting scales according to a light intake ratio;

calculating, from said third image, display center positions of said plurality of first patterns using said second pattern positions;

measuring discrete fluophor emission intensity distributions for each of said plurality of first patterns; and

obtaining an electron beam intensity distribution by matching display center positions of said plurality of first patterns and combining said plurality of first patterns.

2. (Original) The method for evaluating a color picture tube as described in claim 1, wherein in said step for displaying said measurement pattern, there are at least a predetermined number of said first patterns or said line patterns or said dot patterns having phases, defined by a decimal fraction of a display pitch/fluophor pitch, within a predetermined range relative to a first pattern or a line pattern or a dot pattern serving as a reference.

3. (Original) The method for evaluating a color picture tube as described in claim 1, wherein in said step for displaying said measurement pattern, at least two of said second patterns are arranged horizontally or vertically, and in said step for obtaining said third image, a slope of a line connecting said at least two second patterns is calculated and rotational transformation is applied to said image so that said slope is 0.

4. (Original) The method for evaluating a color picture tube as described in claim 1, wherein in said step for obtaining said third image, a pitch of said fluophors contained in said second patterns is measured in image element units, and said fluophor pitch is used to calculate an image element size.

5. (Original) The method for evaluating a color picture tube as described in claim 1, wherein in said step for obtaining said third image, at least one position of said second patterns is detected from said first image and a corresponding second pattern position is detected from said second image, and an offset between said detected positions is used to detect an offset between said first image and said second image.

6. (Original) The method for evaluating a color picture tube as described in claim 1, wherein in said step for displaying said measurement pattern, said measurement pattern is displayed at a plurality of positions on said picture tube display surface, and a position recognition pattern is displayed close to each of said measurement patterns.

7. (Original) A method for evaluating a color picture tube, comprising:

displaying on a display surface of a color picture tube a measurement pattern formed from a plurality of basic patterns and auxiliary patterns;

obtaining a first image by imaging said displayed measurement pattern under a first light intake condition;

obtaining a second image by imaging said displayed measurement pattern under a second light intake condition;

obtaining a third image by combining said first image and said second image based on said first light intake condition and said second light intake condition;

determining a display center position of said basic pattern from said auxiliary pattern position information from said third image;

measuring discrete fluophor emission intensity distributions for each of said plurality of basic patterns; and

obtaining an electron beam intensity distribution by matching display center positions of said plurality of basic patterns for which discrete fluophor emission intensity distributions were calculated and combining said plurality of basic patterns; and

outputting information relating to said determined electron beam intensity distribution.

8. (Original) The method for evaluating a color picture tube as described in claim 7, wherein said second light intake condition is set so that, in said second image imaged under said second light intake conditions, images associated with areas having a brightness of no more than about 1% of a maximum luminance from said first image are distinguishable from noise.

9. (Original) The method for evaluating a color picture tube as described in claim 7, wherein, in said step for displaying a measurement pattern, said measurement pattern is displayed at a plurality of positions on said picture tube display surface, and a position recognition pattern is displayed close to each of said measurement patterns.

10. (Currently Amended) A method for evaluating a color picture tube, comprising:

displaying a measurement pattern on a display surface of a color picture tube;

obtaining a first image by imaging said displayed measurement pattern with an imaging element under a first light intake condition ~~using an~~ of said imaging element;

obtaining a second image by imaging said displayed measurement pattern with said imaging element under a second light intake condition ~~using~~ of said imaging element;

obtaining a third image having a wider dynamic range than images obtained through imaging with said imaging element by combining said first image and said second image;

measuring a discrete fluophor emission intensity distribution for said measurement pattern; and

obtaining an electron beam intensity distribution using said measured discrete fluophor emission intensity distribution and said calculated data for said plurality of basic patterns; and

outputting information relating to said determined electron beam intensity distribution.

11. (Original) The method for evaluating a color picture tube as described in claim 10, wherein in said step for displaying said measurement pattern, said measurement pattern is displayed at a plurality of positions on said picture tube display surface, and a position recognition pattern is displayed close to each of said measurement patterns.

12. (Original) The method for evaluating a color picture tube as described in claim 10, wherein said second light intake condition is set so that, in said second image imaged under said second light intake conditions, images associated with areas having a brightness of no more than about 1% of a maximum luminance from said first image are distinguishable from noise.

13. (Original) The method for evaluating a color picture tube as described in claim 10, wherein said third image with said wide dynamic range provides noise separation in a range of about 1% to about 100% of a maximum luminance of said image.

14. (Original) A device for evaluating a color picture tube, comprising:

a display generator to display on a display surface of a color picture tube a measurement pattern including a plurality of basic patterns arranged at different positions

relative to fluophor dots of said color picture tube and at least three auxiliary patterns near said basic patterns and sufficiently large relative to said fluophor dots;

an imager to obtain a first image using an imaging element to image said displayed measurement pattern and obtain a second image using said imaging element to image while controlling light intake to allow brightness components of no more than about 1% of maximum luminance from said first image to be separated from noise and imaged;

an image processor to create a third image by combining said first image and said second image while adjusting scales according to a light intake ratio;

a first calculating unit to calculate from said third image display created by said image processor a display center positions for each of said plurality of basic patterns using said auxiliary pattern positions;

a measuring unit to measure discrete fluophor emission intensity distributions for each of said plurality of basic patterns; and

a second calculating unit to obtain an electron beam intensity distribution by matching display center positions calculated by said first calculating unit and combining said plurality of basic patterns.

15. (Original) The device for evaluating color picture tubes as described in claim 14, wherein in said display generator, there are at least a predetermined number of said basic patterns or said line patterns or said dot patterns having phases, defined by a decimal fraction of a display pitch/fluophor pitch, within a predetermined range relative to a basic pattern or a line pattern or a dot pattern serving as a reference.

16. (Original) The device for evaluating color picture tubes as described in claim 14, wherein in said image processor, at least two of said auxiliary patterns are arranged horizontally or vertically and, in a step for obtaining said third image, a slope of a line connecting said at least two auxiliary patterns is calculated and rotational transformation is applied to said image so that said slope is 0.

17. (Original) The device for evaluating color picture tubes as described in claim 14, wherein said image processor measures a pitch of said fluophors contained in said auxiliary patterns in image element units, and said fluophor pitch is used to calculate an image element size.

18. (Original) The device for evaluating color picture tubes as described in claim 14, wherein said image processor detects at least one position of said auxiliary patterns from said first image and detects a corresponding auxiliary pattern position from said second image, and an offset between said detected positions is used to detect an offset between said first image and said second image.

19. (Original) The device for evaluating color picture tubes as described in claim 14, wherein said image processor displays said measurement pattern at a plurality of positions on said picture tube display surface, and displays a position recognition pattern close to each of said measurement patterns.

20. (Original) A device for evaluating a color picture tube, comprising:

a displaying unit to display a measurement pattern, including a basic pattern and an auxiliary pattern, on a display surface of a color picture tube;

an imaging unit to obtain a first image by imaging said displayed measurement pattern under a first light intake condition using an imaging element and obtaining a second image by imaging said displayed measurement pattern under a second light intake condition using said imaging element;

a processing unit to create a third image by combining said first image and said second image obtained from said imaging unit based on said first light intake condition and said second light intake condition;

a first calculating unit to determine a display center position of said basic pattern from said auxiliary pattern position information from said third image created by said processing unit;

a measuring unit to measure discrete fluophor emission intensity distributions for each of said plurality of basic patterns; and

a second calculating unit to determine an electron beam intensity distribution by using display center position data calculated by said first calculating unit and combining said discrete fluophor emission intensity distributions measured for each of said basic patterns by said measuring unit; and

an outputting unit to output information relating to said determined electron beam intensity distribution.

21. (Original) The device for evaluating a color picture tube as described in claim 20, wherein said second light intake condition of said imaging unit is set so that, in said second image imaged under said second light intake conditions, images associated with areas having a brightness of no more than about 1% of a maximum luminance from said first image are distinguishable from noise.

22. (Original) The device for evaluating a color picture tube as described in claim 20, wherein said displaying unit displays said measurement pattern at a plurality of positions on said picture tube display surface, and a position recognition pattern is displayed close to each of said measurement patterns.

23. (Currently Amended) A device for evaluating a color picture tube, comprising:

pattern displaying means for ~~displaying patterns~~ displaying a measurement pattern on a display surface of a color picture tube;

imaging means for ~~imaging~~ obtaining a first image and a second image by imaging said displayed measurement pattern under a first light intake condition and a second light intake condition, the first image being obtained with an imaging element under said first light intake condition of said imaging element, the second image being obtained with said imaging element under said second light intake condition of said imaging element;

image generating means for generating ~~images creating~~ a third image having a wider dynamic range than images obtained through imaging with said imaging means by combining said first image and said second image obtained with said imaging means;

discrete fluophor emission intensity distribution measuring means for ~~measuring discrete fluophor emission intensity distribution~~ measuring discrete fluophor emission intensity distribution for said plurality of basic patterns; and

determining means for determining an intensity distribution of an electron beam beamed to said display surface of said color picture tube using discrete fluophor emission intensity distribution information measured by said discrete fluophor emission intensity distribution measuring means and information of said third image generated by said image generating means; and

outputting means for outputting information relating to said determined electron beam intensity distribution.

24. (Original) The device for evaluating a color picture tube as described in claim 23, wherein said pattern displaying means displays said measurement pattern at a plurality of positions on said picture tube display surface, and a position recognition pattern is displayed close to each of said measurement patterns.

25. (Original) The device for evaluating a color picture tube as described in claim 23, wherein said second light intake condition of said imaging means is set so that, in said second image imaged under said second light intake conditions, images associated with areas having a brightness of no more than about 1% of a maximum luminance from said first image are distinguishable from noise.

26. (Original) The device for evaluating a color picture tube as described in claim 23, wherein said third image generated by said image generating means provides noise separation in a range of about 1% to about 100% of a maximum luminance of said image.

27. (Currently Amended) A method for making color picture tubes, comprising:

assembling a plurality of electrodes using an electron gun assembly process;

using an electron gun sealing process, placing an electron gun assembled in said electron gun assembly process in a bulb, forming a vacuum, and sealing said bulb;

assembling a deflector yoke onto said bulb and performing inspection and adjustment of image quality using an image quality inspection/adjustment process, said bulb assembled with said deflector yoke being sent to a next process when said image quality inspection/adjustment process is passed successfully, wherein, said image quality inspection/adjustment process includes:

displaying a measurement pattern on a screen of said bulb assembled with said deflection yoke,

obtaining a first image by imaging said displayed measurement pattern ~~using~~ with an imaging element under a first light intake condition of said imaging element,

obtaining a second imaged by imaging said displayed measurement pattern ~~using~~ with said imaging element under a second light intake condition of said imaging element,

obtaining a third image with a wider dynamic range obtained by imaging with said imaging element by combining said first image and said second image,

using said third image to determine an intensity distribution of an electron beam beamed to said display surface of said bulb assembled with said deflection yoke, and

approving said inspection if said determined intensity distribution is within a predetermined range.

28. (Original) The method for making color picture tubes of 27, wherein if an irregularity is detected in quantitative evaluation of emission distribution in said image quality inspection/adjustment process, information relating to said irregularity is passed on to at least one of the following: said electron gun assembly process, said electron gun sealing process, and said image quality inspection/adjustment process.

29. (Original) The method of claim 1, wherein said first patterns are basic patterns and said second patterns are auxiliary patterns.

30. (Original) The method of claim 29, wherein there are at least three auxiliary patterns.

REMARKS/ARGUMENTS

Claims 1-30 are pending. Claims 10, 23, and 27 have been amended. No new matter has been added.

Claims 10,13, 23, and 26-28 were rejected under 35 U.S.C. § 102(e) as being anticipated by Nishikawa. Applicants respectfully traverse the rejection. Claim 10 is directed to a method for evaluating a color picture tube. The claim recites, among other features, "obtaining a first image by imaging said displayed measurement pattern with an imaging element under a first light intake condition of said imaging element; obtaining a second image by imaging said displayed measurement pattern with said imaging element under a second light intake condition of said imaging element..."

One of the features of the claimed invention relates to reducing loss of signal values. As explained in page 7 of the specification, the component with low signal values (i.e., darker components) are generally lost in noise and quantization errors. The above recited features are directed to measuring the minimum brightness in such a way to reduce such data loss. For example, a standard exposure image 701 is obtained by adjusting the light intake to prevent saturation at the maximum luminance value (page 7, lines 17-18). A long exposure image 702 of the same location is also obtained by extending exposure time to prevent the minimum brightness from being lost in noise (page 7, lines 18-20). These two images that are obtained using two different light intake conditions are combined to prevent losing lower signal values to the noise, quantization errors, or the like.

Nishikawa discloses an apparatus for measuring a profile of an electron beam of a CRT. The Examiner stated that the above features are disclosed in Fig. 8 and at col. 9:4 to col. 10:44. Applicants respectfully disagree.

Nishikawa discloses obtaining a plurality of images of a test pattern that is displayed on a screen by changing raster size. Nishikawa does not describe using different light intake conditions to obtain different images of a displayed pattern. That is , Nishikawa does not disclose "obtaining a first image by imaging said displayed measurement pattern with an imaging element under a first light intake condition of said imaging element; obtaining a second image by

imaging said displayed measurement pattern with said imaging element under a second light intake condition of said imaging element..." Claim 10 is allowable at least for the above reason.

Claim 23 recites, "imaging means for obtaining a first image and a second image by imaging said displayed measurement pattern under a first light intake condition and a second light intake condition, the first image being obtained with an imaging element under said first light intake condition of said imaging element, the second image being obtained with said imaging element under said second light intake condition of said imaging element..." Nishikawa does not disclose the above recited feature. Claim 23 is allowable at least for the reason set forth above.

Claim 27 recites, "obtaining a first image by imaging said displayed measurement pattern with an imaging element under a first light intake condition of said imaging element, obtaining a second imaged by imaging said displayed measurement pattern with said imaging element under a second light intake condition of said imaging element..." Nishikawa does not disclose the above recited features. Claim 27 is allowable at least for this reason.

Other claims depend from one of the above claims and are allowable at least for this reason.

Claims 12 and 25 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Nishikawa. Applicants respectfully traverse the rejection. Claims 12 and 25 depend from claims 10 and 23, respectively, and are allowable at least for the reasons claims 10 and 23 are allowable.

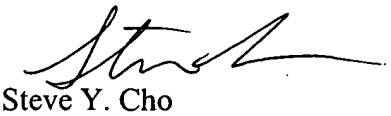
Applicants thank the Examiner for indicating that claim 1-9, 14-22, and 29-30 and that claims 11 and 24 included allowable subject matters

CONCLUSION

In view of the foregoing, Applicants believe all claims now pending in this Application are in condition for allowance. The issuance of a formal Notice of Allowance at an early date is respectfully requested.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at .

Respectfully submitted,



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